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PNV601

Technical Product Guide

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PN-V601 60" Professional LCD Monitor with ultra-slim bezel

Introducing the world's slimmest bezel* MLCD videowall screen

The size of the screen makes it ideal for large videowall applications including for retail, corporate events and digital signage where they are perfect for indoor advertising and perform well in high ambient light.

*As of Oct 2010 (based on Sharp survey of 46" and larger LCD commercial monitors)

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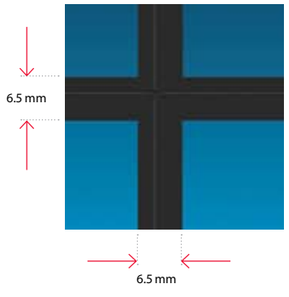
Features and Benefits

+ Largest modular LCD videowall

The Sharp 60" LCD enables clients to create huge videowalls with a small number of seams. This makes it perfect for large scale applications, creating seamless, high impact images with almost no interruption.

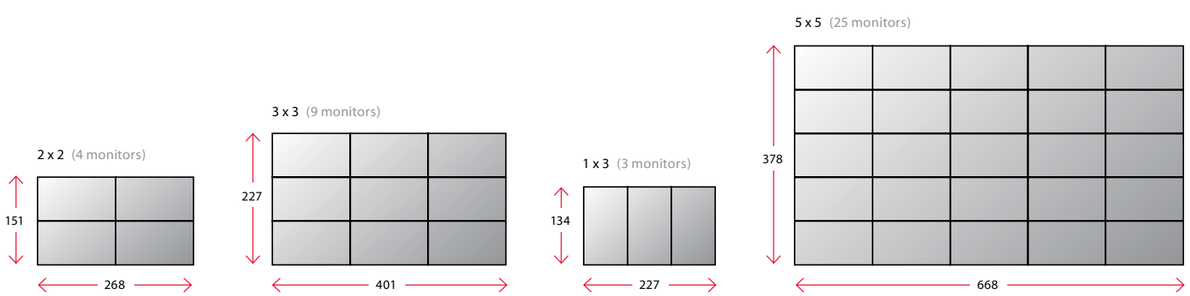


+ Bezel-less technology

The product's ultra thin bezels measure just 6.5mm ensuring a very small interruption to the picture, particularly for very large displays.

+ Full array LED backlight

The product's full-screen LED backlight ensures uniform light distribution and particularly vibrant pictures and no drop-off in brightness at the edge of a screen.



+ Modular design

The Sharp 60" LCD can be joined in any combination to create videowalls of any size or shape, utilising the screens in both vertical and horizontal formations.

+ Cost-effective

Because fewer screens are required (due to the size of each screen) there is less processing required, and as a result a Sharp 60" videowall will be more cost effective when specifying large walls.

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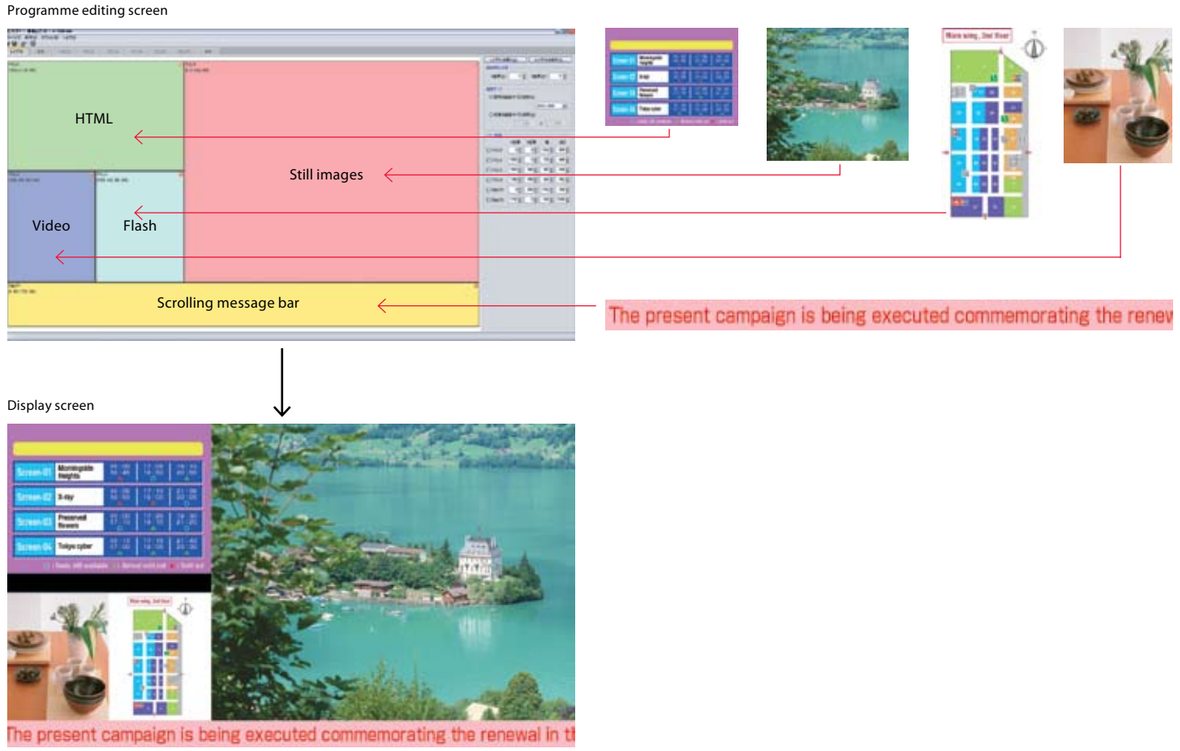
Sharp Digital Signage Software



Optional Digital Signage Software

Sharp Digital Signage Software is available as a versatile management software package that provides total support for the creation, scheduling, distribution, and display of a wide range of programmes for Sharp LCD monitors installed in offices, commercial establishments, and public spaces.

- To facilitate programme editing, four frames for such diverse content as still images, video, HTML, and Flash can be freely arranged, and two message bars—with multilanguage support and a variety of fonts and backgrounds to choose from—can be displayed horizontally or vertically.
- To ensure easy setup of content schedules, Sharp Digital Signage Software features a user-friendly interface.
- To smoothly manage the programme display, power and input can be remotely controlled, and displays can be remotely monitored.

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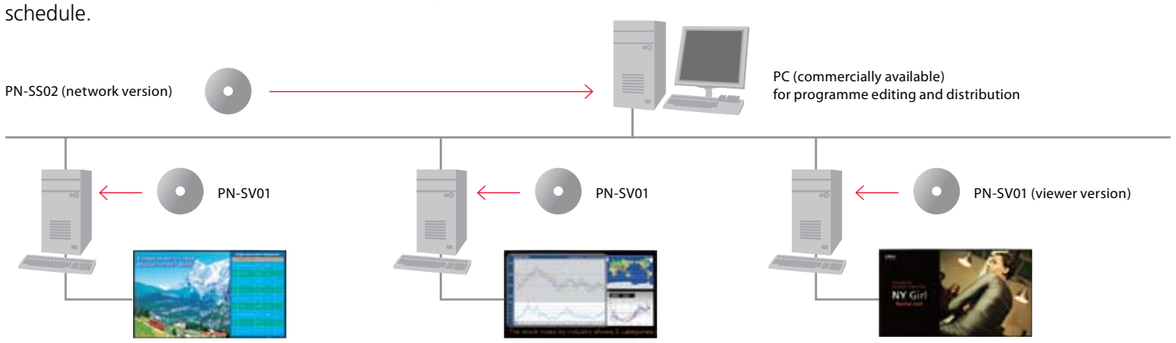
For Use in Stand-Alone or Network Systems

PN-SS02 Network Version

In network systems, PN-SS02 software enables programmes to be edited and stored on a networked PC then distributed via the network to up to 100 clients* according to a set schedule.

* Each client represents a separate PC and Sharp LCD monitor.



PN-SV01 Viewer Version

Used on the client* side, PN-SV01 viewer software allows programmes edited with PN-SS01 or PN-SS02 software to be displayed on the client's LCD monitor according to a set schedule.

PN-SS01 Stand-Alone Version

In stand-alone systems, PN-SS01 software enables programmes to be edited on a single PC for display on a single LCD monitor according to a set schedule. Programmes can be transferred to another client* via a USB flash drive.

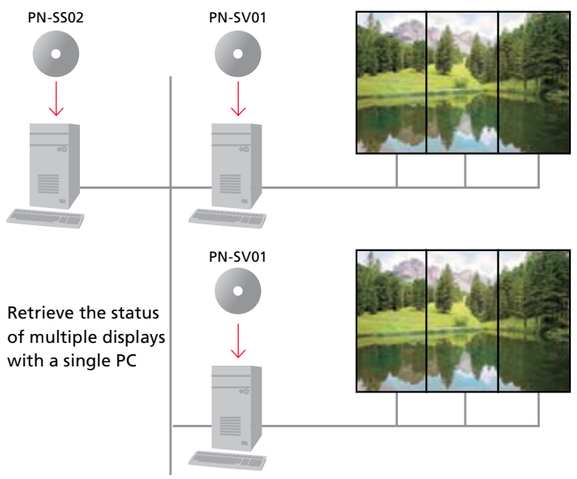
Sharp Digital Signage Software Configuration	
Version name	Number of software installations required
PN-SS02 network version	1
PN-SV01 viewer version	Same as the number of clients*

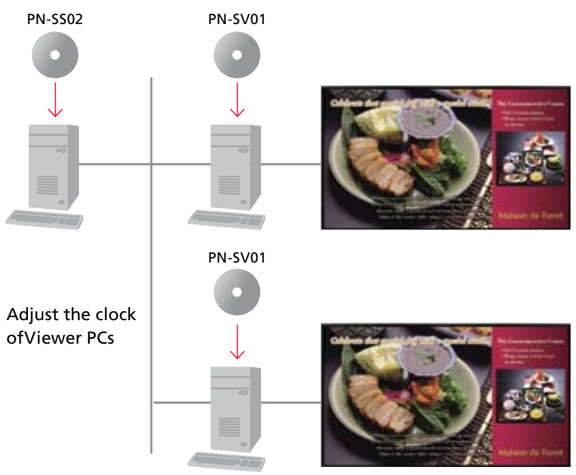
Multiple Display Management (New)

Sharp Digital Signage System (ver. 3.0) is able to retrieve status updates from multiple displays via a single PC, simplifying the task of managing large configurations.

Synchronised Display (New)

SDSS is able to synchronise the clocks on each viewer PC with the management PC at regular intervals, making it possible to start programmes on multiple displays at the exact same time.





Installation and Warranty

Sharp's chosen partner for supporting this new technology is PSCo, leading distributor of the latest videowall and large format display technologies in the UK and Ireland.

Installation

From carrying out detailed product demonstrations at PSCo's Reading headquarters, to site surveys and the installation of the product, PSCo's technical team can ensure the Sharp 60" Videowall is integrated safely and seamlessly into any environment.

The PSCo technical team will colour balance the videowall and ensure perfect function on installation.

Enhanced Warranty

The Sharp 60" PNV-01 comes with a 3 year warranty including a courier service to collect any faulty panels and send a replacement.

PSCo offers an Enhanced Warranty option, which includes an on-site engineer to repair or replace the product in situ, providing de-install and re-install support.

Our service division will also work with you in particularly complex or specialist installations to tailor a bespoke warranty package that meets the client's needs.

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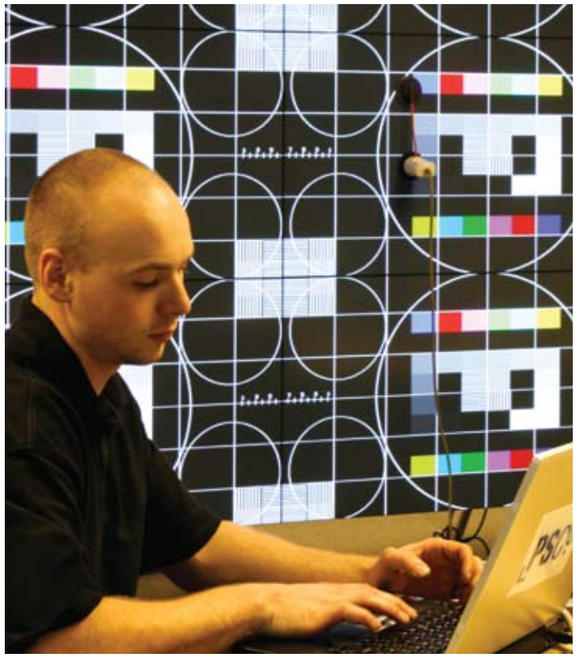

Demonstrations

Customers can use PSCo's headquarters to build test videowalls to their specifications, in order to see the finished product in a live environment and to allow content to be tested fully before the project is finalised.

In addition, the PSCo team will work with you to arrange on-site demonstrations when required, bringing this incredible new product to you.

Training

At PSCo's state of the art demonstration facility in Reading, the technical team provide bespoke training on the Sharp 60" videowall.

The course includes detailed information on the product's features and benefits, technical and installation workshops, and how to utilise the technology to maximise it's potential.

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Sliding Bracket System

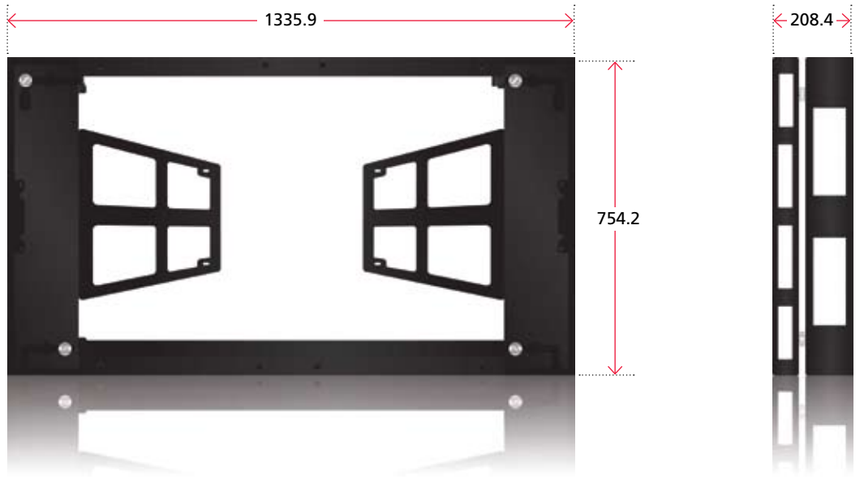
This exclusive videowall bracket system is designed to support integration and maintenance of the Sharp PNV601 screens.

These feature rich brackets are specifically for use with the Sharp 60" LCD videowall screen and offers a host of benefits to professional AV integrators and the perfect finish for end customers.

The brackets combine features for both rental and fixed installation applications in a single design. In rental applications the bracket can be quickly reconfigured without tools for left, right or lift on assembly and optional roto-lock quick release components can be fitted to reduce build times.

The system is scalable to any size or shape of video wall, with flexible options for multiple leg positions in freestanding situations. The leg assemblies are height adjustable with levelling feet and a small foot print.

The whole system has been designed in order to minimise of risk of damage to the LCD panels and bezels through excessive handling.



Single sliding bracket.
Front and side elevations.

Key Features

- Front serviceable (configurable in 3 ways - left/right entry or lift on/off)
- Both a wall mounted or free-standing solution
- Range of leg assemblies and custom options available
- Provides ample ventilation and space for peripherals and cabling
- Simple 3-axis adjustment for accurate alignment of panels
- Quick- lock/release option for rental market
- Easy to use - box design enables quick setting out of any size wall

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Specifications

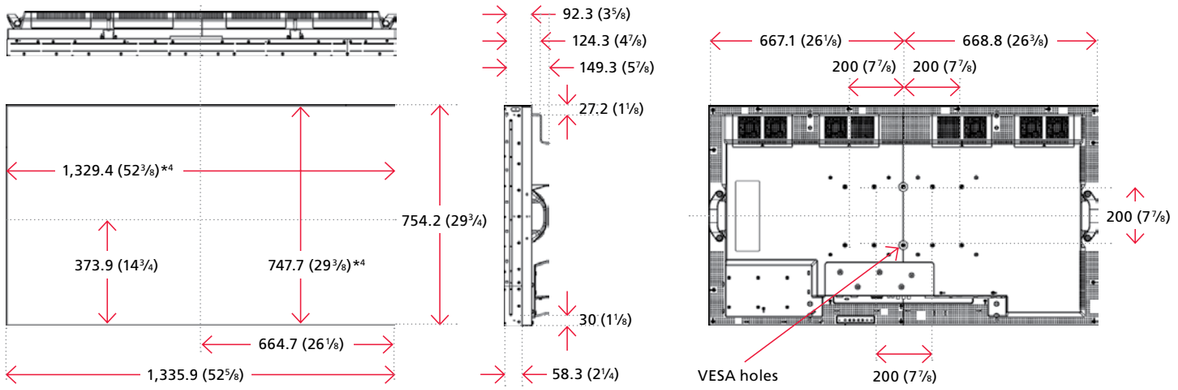
PNV601

Installation	Landscape / Portrait
LCD Panel	60-inch widescreen (152.4 cm diagonal)
Max. Resolution	1,366 x 768 pixels
Max. Display Colours (approx.)	16.77 million colours
Pixel Pitch	0.97275 mm
Max. Brightness*1	700 cd/m2
Contrast Ratio	2400:1
Viewing Angle (H/V)	176°/176° (CR 10)
Active Screen Area (W x H)	1328.8 x 747.1 mm
Response Time	6 ms (gray to gray, avg.)
Computer Input	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to
Video	DVI 1.0 standards)
Synchronisation	Horizontal/vertical separation (TTL: positive/negative)
Plug & Play	Sync-on-green, Composite sync (TTL: positive/negative)
Power Management	VESA DDC2B
Video Colour System	VESA DPMS, DVI DMPM
Input Terminals	NTSC (3.58 [NTSC-M]) / NTSC (4.43) / PAL / PAL60 / SECAM
Standard	PC analogue: Mini D-sub 15-pin x 1, HDMI x 1, 3.5 mmdiameter mini stereo jack x 1, RS-232C D-sub 9-pin x 1, Control Kit terminal x 1
Via Optional PN-ZB02 Board	PC digital: DVI-D 24 pin x 1, PC analogue: BNC x 1 Video: BNC x 1, S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1, Audio: RCA pin (L/R) x 2

Output Terminals	
Standard	Audio: RCA pin (L/R) x 1, RS-232C D-sub 9-pin x 1
Via Optional PN-ZB02 Board	PC digital: DVI-D 24 pin x 1, External speaker 10W+10W (6)
Input / Output Terminals	
Via Optional PN-ZB02 Board	LAN port
Power Supply	100V – 240V AC, 50/60 Hz
Mounting	VESA (6 points), 200mm (7 7/8") pitch
	VESA (4 points), 200mm (7 7/8") pitch
Power Consumption	480W
Environmental Conditions	
Operating Temperature	0°C to 40°C
Operating Humidity	20% to 80% RH (no condensation)
Dimensions (W x D x H) (approx.)	1,335.9 x 149.3 x 754.2 mm (52 5/8" x 5 7/8" x 29 3/4") (Display section only, not including protrusions) 1,580 x 381 x 932 mm (62 1/4" x 15" x 36 3/4")
Weight (not including PN-ZB02)	44 kg (96.9 lbs.)
Packing Weight (approx.)	55 kg (121.25 lbs.)
Main Accessories	AC power code (approx. 3m,) operation manual, CD-ROM, stand hole protection cover20 ~ 80%RH

* Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness.

Physical Dimensions



Specifications

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Sharp Digital Signage Software Operating Environment

Personal Computer	CPU-Celeron® M1.3GHz or faster (Pentium® 4 processor is recommended)
	A high-performance CPU, such as Pentium® 4 2GHz or faster, is required for programmes that include a large volume of videos or other content*1
OS	Microsoft® Windows® XP, Microsoft® Windows Vista®, Microsoft® Windows 7, Microsoft® Windows Server® 2003/2008 (English version)
Memory	256MB or more (512MB or more is recommended)*1
Hard Disk	20MB or more of free space (required for data)
Display (PC use)*2	Full-colour display with a resolution of 1,024 x 768 or higher
Interface	USB port (only for use with USB memory), LAN port (only network versions that enable TCP/IP communications)
Miscellaneous	Microsoft® Internet Explorer® 6.0 or later, Microsoft® PowerPoint® Viewer 2003/2007, Microsoft® Windows Media® Player 9 or later*3, Adobe® Flash® Player
	QuickTime Player 7 or later (for playback of QuickTime content)

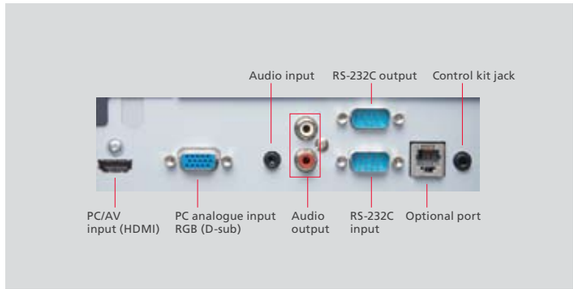
Sharp Digital Signage Software Supported Files

Background + Display Frames 1 to 4	MPEG, MPEG1, MPEG2, MPEG4, WMV (format for playing back on Windows Media® VIDEO - Windows Media® Player), MOV (format for playing back on QuickTime Player), Adobe® Flash® (format for playing back on Adobe® Flash® Player), PowerPoint®, HTML, JPEG, BMP, GIF, PNG
Audio	WAVE, MP3, AU, AIFF, WMA (format for playing back on Windows Media® Audio - Windows Media® Player), MIDI, MOV (format for playing back on QuickTime Player)

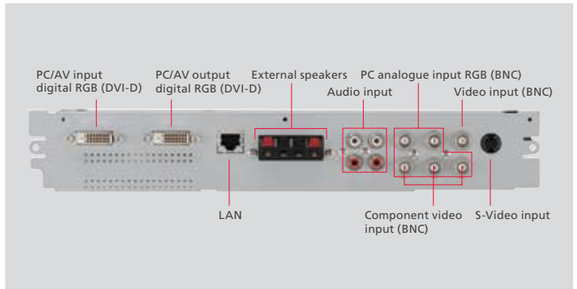
Depending on CPU speed, memory, and other factors, it may not be possible to use some video, subtitles, and other content. *1 This operating environment must be available when using Microsoft® Windows Vista® or Microsoft® Windows 7. *2 For creating and editing programmes and schedules. *3 A codec (sold separately) might be required in some cases to play back video files. *4 Screen dimensions. *5 To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket. Design and specifications are subject to change without prior notice.

The ENERGY STAR logo is a certification mark and may only be used to certify products that have been determined to meet the ENERGY STAR programme requirements ENERGY STAR is a US registered mark. The ENERGY STAR guidelines apply to products only in the US, the EU, Japan, Canada, Australia, New Zealand and Taiwan.

Input/Output Terminals (standard)



PN-ZB02 Interface Expansion Board (Optional)



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